

## Claims:

1. Method for cooling rising vapors (3) in a desorption column (2) by means of a condenser (1) disposed at the head of the desorption column (2), configured as an indirect heat exchanger, through which a coolant flows, whereby the coolant enters into the condenser (1) at the bottom and flows upward through vertical channels (8) disposed in the condenser (1), characterized in that a coolant containing hydrogen sulfide is used, and that the coolant exits as an overflow (6), by means of top-side openings (10) of the channels (8), at the top of the condenser (1), after the heat absorption has occurred.
2. Method according to claim 1, characterized in that the overflow (6) flows into the desorption column (2).
3. Desorption column for carrying out the method according to claim 1 or 2, having a column head, a condenser (1) disposed therein, which has channels (8) through which coolant flows, whereby the channels (8) form heat exchanger surfaces for cooling rising vapors, characterized in that the channels are disposed vertically and flow takes place through them from the bottom to the top, and that the channels have top openings and

thereby form an overflow (6) for the coolant, which flows into the column (2).